

PROPOSED WASTEWATER TREATMENT PROJECTS

KENTUCKY RIVER ADD PLANNING AREA

- Proposed projects would connect about 5,700 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$31,700,000
- Estimated funding needs for public sewer 2006-2020--\$70,000,000

Estimated costs for public sewer expansions and associated system upgrades are:

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
BREATHITT							-
Jackson .	290	2,500					2,500
							-
KNOTT							-
Hindman .	193	2,000					2,000
							-
LEE							-
Beattyville							none
							-
LESLIE							-
Hyden		1,100	2,500				3,600
							-
LETCHER							-
Whitesburg	48	1,145	2,681				3,826
Fleming-Neon	719	4,300	820				5,120
Jenkins	35	300	-				300
Letcher Co. Water/Sewer	72	2,500	-			2,000	4,500
County Total	874	8,245	3,501			2,000	13,746
							-
OWSLEY							-
Booneville .	140	1700					1,700
							-
PERRY							-
Hazard .	55	2088					2,088
Sanitation District #1 .	600	3000					3,000
County Total	655	5,088					5,088
							-
WOLFE							-
Campton	200	1,400	-	1,700			3,100
							-
KRADD TOTAL	2,352	22,033	6,001	1,700		2,000	31,734

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
BREATHITT							-
Jackson	No long term projects						none
KNOTT							-
Hindman	Prison	10,000					10,000
							-
LEE							-
Beattyville	12	500					500
							-
LESLIE							-
Hyden	200	2,000					2,000
							-
LETCHER							-
Fleming-Neon	300	2,975					2,975
Jenkins	12	300					300
Letcher Co. Water/Sewer	1,500	20,000			5,000		25,000
County Total	1,812	23,275			5,000		28,275
							-
OWSLEY							-
Booneville	160	8,000		2,000			10,000
							-
PERRY							-
Vicco	515	3,260	3,000	3,000			9,260
Sanitation District #1	600	4,000			6,000		10,000
County Total	1,115	7,260	3,000	3,000	6,000		19,260
							-
WOLFE							-
Campton - No long term projects							none
KRADD TOTAL	3,299	51,035	3,000	5,000	11,000		70,035

BREATHITT COUNTY

- Proposed projects would connect about 300 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$2,500,000
- Estimated funding needs for public sewer 2006-2020--\$0

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
BREATHITT							-
Jackson SX21025001	290	2,500					2,500

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
BREATHITT							-
Jackson							none

PROJECT LISTING

<u>Project#</u>	<u>Priority</u>	<u>Project Owner</u>	<u>Cost Estimates</u>
<u>Customers</u> SX21025001 290	Immediate	City of Jackson	\$2,500,000
Description: Various line extensions including Pan Bowl area, Armory Drive, Kings Branch, Licks Branch, Hwy 15 North, Shacks Branch, Hwy 30 West and Hwy 52 at Millers Branch and Colts Fork.			
SX21025002 60	Immediate	City of Jackson	\$700,000
Description: Received some funding from 531 Corps of Engineers grant. Trying to determine accuracy of cost estimate and locate matching funds. Would cover residents of the Hardshell/Caney area.			

KNOTT COUNTY

- Proposed projects would connect about 200 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$2,000,000
- Estimated funding needs for public sewer 2006-2020--\$10,000,000

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
KNOTT							-
Hindman SX21119001	193	2,000					2,000

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
KNOTT							-
Hindman SX21119002	Prison	10,000					10,000

PROJECT LISTING

HINDMAN WASTEWATER PLANT

<u>Project#</u>	<u>Priority</u>	<u>Project Owner</u>	<u>Cost Estimate</u>	<u>Customers</u>
SX21119001	Immediate	City of Hindman	\$2,000,000	193
Description: About 6 miles of Line extensions on the Left Fork of Troublesome and the Right Fork of Traces Branch. Includes pump and existing line repair.				
SX21119002	Long Term	Caney Creek	\$10,000,000	
Description: Regional Sewer plant to serve Industrial site in Knott County along with residential customers in Knott and Perry Counties.				

LEE COUNTY

- Estimated funding needs for public sewer 2000-2005--\$0
- Estimated funding needs for public sewer 2006-2020--\$500,000

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
LEE							none
Beattyville SX21129001	Immediate projects funded						-

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
LEE							-
Beattyville SX21129002	12	500					500

PROJECT LISTING

<u>Project#</u>	<u>Priority</u>	<u>Project Owner</u>	<u>Cost Estimate</u>	<u>Customers</u>
SX21129001	Long Range	City of Beattyville	\$500,000	12

Description: Last remaining section expected to be served. Located at Southfork area around the junction of Hwys 1411, 52, and 11.

LESLIE COUNTY

- Proposed projects would connect about 300 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$3,600,000
- Estimated funding needs for public sewer 2006-2020--\$2,000,000

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
LESLIE							-
Hyden SX21131001	HS+104	1,100	2,500				3,600

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
LESLIE							-
Hyden SX21131002	200	2,000					2,000

PROJECT LISTING

<u>Project#</u>	<u>Priority</u>	<u>Project Owner</u>	<u>Cost Estimate</u>	<u>Customers</u>
SX21131001	Immediate	City of Hyden	\$1,100,000 extensions \$2,500,000 upgrades	104

Description: Extension to High School which would replace a package plant, extension along US 421 South, extension at Breckinridge area, and the Hyden Spur area. 104 Customers includes 12 commercial customers.

SX21131002	Long Range	City of Hyden		200
------------	------------	---------------	--	-----

Description: Hurts Creek area and Rockhouse extension at Hyden Spur. Also will provide service to proposed industrial park.

LETCHER COUNTY

- Proposed projects would connect about 2,700 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$13,700,000
- Estimated funding needs for public sewer 2006-2020--\$28,300,000

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
LETCHER							-
Whitesburg							-
SX21133005	48	1,145					1,145
SX21133007			2,681				2,681
Total	48	1,145	2,681				3,826
Fleming-Neon							
SX21133001	500	3,100					3,100
SX21133002	219	1,200	820				2,020
Total	719	4,300	820				5,120
Jenkins							-
SX21133008	35	300					300
Letcher Co. Water/Sewer							-
SX21133006	72	2,500					2,500
Rural Community Systems						2,000	2,000
Total	72	2,500				2,000	4,500
County Total	874	8,245	3,501			2,000	13,746

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
LETCHER							-
Fleming-Neon							-
SX21133003	243	2,295					2,295
SX21133004	57	680					680
Total	300	2,975					2,975
Jenkins SX21133009	12	300					300
Letcher Co. Water/Sewer							-
SX2113310	1500	20,000			5,000		25,000
County Total	1,812	23,275			5,000		28,275

The two big problems facing the county are the number of straight pipes and failing septic systems. A lot of homes from the old coal camps are built on lots too small for traditional septic systems, and in many parts of the county the soil is unsuitable for proper percolation of septic fields.

Letcher County is taking action on these problems. Local municipalities are working with the County Water and Sewer District to extend services to areas that can be served by traditional means, while the Water and Sewer District is pursuing alternative methods of treatment such as individual peat and cluster systems for areas well outside current municipal boundaries. The District has located several areas that appear to be

suitable for cluster systems, but no specific site for expansions are planned because they need to coincide with future water expansions. A long range solution that has been discussed is a large plant to be located in the Cowan area. Working in conjunction with the Neon plant, the entire Boone Fork and the headwaters of the North Fork of the Kentucky River would be served. Also, The Letcher County Fiscal Court recently passed a mandatory sewer ordinance.

PROJECT LISTING

WHITESBURG WASTEWATER TREATMENT PLANT

<u>Project#</u>	<u>Priority</u>	<u>Project Owner</u>	<u>Cost Estimate</u>	<u>Customers</u>
SX21133005	Immediate	City of Whitesburg	\$1,145,000	48
Description: Collins/Day Hollow area and Long Branch area expansions.				
SX21133007	Immediate	City of Whitesburg	\$2,681,000	
Description: Upgrades to collection system and plant.				

FLEMING-NEON SEWER PLANT

SX21133001	Immediate	Fleming-Neon	\$3,100,000	500
Description: Extensions of nearly 8 miles in the Haymond/Kona area.				
SX21133002	Immediate	Fleming-Neon	\$1,200,000	219
Description: Yonts Fork and Hemphill Extensions.				
		Immediate upgrades	\$820,000	
SX21133003	Long Range	Fleming-Neon	\$2,295,000	243
Description: Remainder of Yonts Fork and various spots with in the city limits.				
SX21133004	Long Range	Fleming-Neon	\$680,000	57
Description: Remainder of Potter Fork and lower Boone Fork				
Long Range Upgrades \$204,000				

JENKINS SEWER PLANT

SX21133008	Immediate	City of Jenkins		35
Description: Various extensions throughout the city including Rocky Hollow, Tin Can Hollow and East Jenkins Hill.				
SX21133009	Long Range	City of Jenkins		12
Description: Extensions at Joes Branch.				

LETCHER WATER AND SEWER

<u>Project#</u>	<u>Priority</u>	<u>Project Owner</u>	<u>Cost Estimate</u>	<u>Customers</u>
SX21133006	Immediate	Letcher Water		72
Description: Using Whitesburg's plant, extend service to the Whitco area.				
SX21133010	Long Range	Letcher Water		1,500
Description: Includes Virtually all households surrounding Whitesburg and a treatment plant in the Cowan area.				

OWSLEY COUNTY

- Proposed projects would connect about 300 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$1,700,000
- Estimated funding needs for public sewer 2006-2020--\$10,000,000

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
OWSLEY							-
Booneville SX21189001	140	1,700					1,700

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
OWSLEY							-
Booneville SX21189002	160	8,000		2,000			10,000

PROJECT LISTING

<u>Project#</u>	<u>Priority</u>	<u>Project Owner</u>	<u>Cost Estimate</u>	<u>Customers</u>
SX21189001	Immediate	City of Booneville		140
Description: Extensions northeast and northwest of Booneville on Hwy 11 and Hwy 30.				

<u>Project#</u>	<u>Priority</u>	<u>Project Owner</u>	<u>Cost Estimate</u>	<u>Customers</u>
SX21189002	Long Range	City of Booneville		160

Description: Extensions in Southern and adjacent to Booneville, Hw 30 east to Lerosé, Hw 30 West to Pebworth, southeast of Booneville and to Chestnut Gap Area southeast of Booneville.

PERRY COUNTY

- Proposed projects would connect about 1,800 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$5,090,000
- Estimated funding needs for public sewer 2006-2020--\$19,260,000

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
PERRY							-
Hazard SX2119002	55	2,088					2,088
Sanitation District #1 SX21193003	600	3,000					3,000
County Total	655	5,088					5,088

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
PERRY							-
Vicco SX21193001	515	3,260	3,000	3,000			9,260
Sanitation District #1 SX21193004	600	4,000			6,000		10,000
Total	1,115	7,260	3,000	3,000	6,000		19,260

PROJECT LISTING

VICCO SEWER PLANT

<u>Project#</u>	<u>Priority</u>	<u>Project Owner</u>	<u>Cost Estimate</u>	<u>Customers</u>
SX21193001	Long Range	City of Vicco	\$5,997,000 extensions \$2,454,000 new plant \$682,000 Collection upgrades \$130,000 pump station upgrades	515

Description: Various extensions north and south along 15, Montgomery Creek Sassfras, Stacey Branch and Georgias Branch.

HAZARD WASTEWATER TREATMENT PLANT

<u>Project#</u>	<u>Priority</u>	<u>Project Owner</u>	<u>Cost Estimate</u>	<u>Customers</u>
SX21193002	Immediate	City of Hazard	\$2,088,000	55

Description: Extension on Highway 15 North that will also serve the Coal Fields Industrial Park and replace 5 package plants along the way.

SANITATION DISTRICT ONE

<u>Project#</u>	<u>Priority</u>	<u>Project Owner</u>	<u>Cost Estimate</u>	<u>Customers</u>
SX21193003 600	Immediate	Sanitation District	\$3,000,000	
Description: Extension in Hardburley area that will remove a lot of straight pipes.				
SX21193004 600	Long Range	Sanitation District	\$4,000,000	
Description: Extensions at Lotts Creek, Upper Second Creek and a new plant.				
			\$6,000,000 new plant	

WOLFE COUNTY

- Proposed projects would connect about 200 new households to public sewer during 2000-2020
- Estimated funding needs for public sewer 2000-2005--\$3,100,000
- Estimated funding needs for public sewer 2006-2020--\$0

Proposed Projects 2000-2005

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
WOLFE							-
Campton SX21237001	200	1,400		1,700			3,100

Proposed Projects 2006-2020

System	New Customers Served	Cost (\$1000)	Line Upgrade (\$1000)	Treatment Expansion (\$1000)	New Treatment (\$1000)	Lift Stations, and other (\$1000)	Total Costs (\$1000)
WOLFE							-
Campton - No long term projects							none

PROJECT LISTING

<u>Project#</u>	<u>Priority</u>	<u>Project Owner</u>	<u>Cost Estimate</u>	<u>Customers</u>
SX21237001	Immediate	City of Campton	\$1,400,000 extensions \$1,700,000 plant upgrade	200

Description: 1.7 million grant from PRIDE is in place for system upgrades, awaiting funding of 1.4 million for extensions to cover homes in West Campton and Washington Street.